



Tony Allred, MDNR/TEA\*  
Christine Buckley, Harford Co.\*  
Mark Castro, UMCES/AL  
Jim Cummins, ICPRB  
Tom Devilbiss, Carroll Co.\*  
John Grace, MDE  
Susan Gresens, TSU  
Mary Ellen Ley, USGS/CBP  
Abby Markowitz, Tetra Tech\*  
Elileen McLellan, Chester Riverkeeper  
Andrew Miller, UMBC

Angela Morales, Howard Co.\*  
Nancy Roth, Versar, Inc.\*  
Matt Rowe, MDE  
Robert J. Shedlock, USGS\*  
William P. Stack, Baltimore City/DPW\*  
Paul Sturm, CWP\*  
Chris Swan, UMBC\*  
Chris Tanner, SMCM  
Cameron Wiegand, Montgomery Co.\*  
Ken Yetman, DNR/WRD\*

Executive Secretary: Dr. Paul Miller, MDNR/MANTA

Invited Guests: Ron Klauda, MDNR\*; Jeff Raffensperger, USGS\*; Meosotis Curtis, Montgomery County\*; Steve Stewart, Baltimore County\*; Emery Cleaves, MGS\*

\*Indicates that Board Member or invited guests were present at this meeting.

## **MINUTES**

**Board of Directors Quarterly Meeting  
Maryland Department of Natural Resources  
580 Taylor Avenue, C-1  
Annapolis, MD  
Wednesday, October 6<sup>th</sup>, 2004  
10:00 am – 2:00 pm**

Chairman Stack began the meeting at 10:00 with the election of officers and new Board appointments. Ken Yetman, Andrew Miller, John Grace, Angela Morales and Chris Tanner all agreed to serve a second 3-year term. Jim Gerhart, District Chief at USGS in Baltimore was nominated and approved by the Board to replace Mary Ellen Ley who declined to serve a second term. Bill Stack proposed Paul Jacobson for Chairman and Ron Klauda for co-Chairman. The Board unanimously agreed. Both are former Board members and will be appointed for one year.

### **Annual Conference – Abby Markowitz**

Abby requested that the survey form from a previous year's conference be sent to Doug Yeskis at USGS for revision and use at the 10<sup>th</sup> Anniversary Conference.

### **Commemorative Conference Gift – Christine Buckley**

Christine Buckley said we need to place order by the end of October. She recommended a pen for a commemorative gift and insulated drinking cup as an

incentive to fill out and return the survey form. The Board unanimously agreed.

Ron Klauda said we have an additional \$2100 for the MWMC Conference. The money comes from NOAA.

Monitoring and Assessment Committee – Ron Klauda

Sherm Garrison will do the QA/QC workshop at the same time as the Stream Monitoring Roundtable. In fact, they proposed having the QA/QC workshop in lieu of the Roundtable – The Roundtable will be held again in 2006.

The PCC & M&A Committee will hold a stream restoration workshop in 2005.

Groundwater Workgroup – Emery Cleaves

The money for the groundwater network (statewide) has been restored for this year through the Cooperative Agreement. Stream gage funding was, also, restored.

Grant outline for “clickable map” support from MACRO – Chris Swan

The map may be a way to resolve conflicts. The grant application is being prepared by Chris Swan. Chris is looking to the grant as a means to upgrade the hardware (server) and hire a staff person.

The grant request is for \$50K and its intent is to improve user friendliness of the “clickable” map. In addition the Data Management Committee (DMC) is going to middle and high schools to show them how to use the map. The grant deadline is in December. Letters of support are needed by October 15, 2004.

GAO Water Monitoring – Emery Cleaves

Report on water monitoring for quality and quantity from Government Accountability Office (GAO).

PCC Goals, Mission and Strategic Plan – Meo Curtis and Steve Stewart

They have compiled a survey of monitoring organizations to put it in the map database. The PCC has discussed statewide monitoring strategy. Their focus over the years has been on stream restoration monitoring. Steve and Meo propose making the PCC an ad hoc committee focused on the statewide monitoring strategy so that they have input into the process of statewide monitoring. They request someone to chair this ad hoc workgroup to focus on statewide monitoring strategy and a separate ad hoc group to work on stream restoration.

The work on the monitoring strategy would begin with the document from MDE & DNR and, then, determine where local government can contribute to achieve goals

important to local interests.

Concern is expressed about how the role of the PCC will be compensated in the absence of a standing committee. Meo and Steve can stay on as co-chairs as long as the activity of the PCC is narrowly focused on these two goals. Chairman Stack directed Meo and Steve Stewart to steer the PCC into narrowly focused, goal-oriented activities.

River Input Monitoring, Watershed Modeling and Trends Estimation - Jeff Raffensberger

Jeff explained the River Input Monitoring (RIM) carried out by USGS and VADEQ at nine locations at the fall line of major river inputs to the Bay.

Trends sought for:

- Stream flow
- Raw concentration data
- load and flow adjusted concentration
  - loads are estimated not observations
  - loads are not independent, but are serially correlated
  - subsampling will be used in the future

Trend Questions

- What temporal changes have occurred in concentration and loads
- What temporal changes have actually occurred?
- What have been the effects of management actions on loads delivered to the Bay?

Flow Adjusted Trends for 2003	
<u>MD RIM stations</u>	<u>TN</u>
CB1.0	dn (25%)
POT1184	dn (15%)
TF1.0	dn (50%)
ET1.0	not significant

Integrated Hydrologic Monitoring (IHM) – Bob Shedlock

Reasons for IHM

1. dynamics of hydro and meteorology
2. management of water resources
3. assess of potential hydrologic and other natural hazards
4. assess chemical quality, transfer poration or environmental conditions
5. understand exchange of water between freshwater, estuarine and coastal ocean.

## Workshop Plenary Session

- Reds Wolman
- Tom Winter
- Jim Smith
- Claire Welty

Poster Session

Panel Session

Summary and Recruitment

The authors of material presented at the workshop have agreed to have their material put on the MWMC web pages.

Eighty people attended the workshop.

Emery Cleaves - \$8115 remain in the MWMC account currently being held at MGS.

Chairman Stack adjourned the meeting at 2:00.